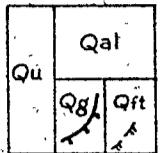


EXPLANATION

Age and lithology of rocks in areas  
that are queried are unknown; mapped  
units that are queried are mapped

SEDIMENTARY ROCKS



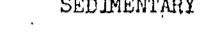
Surficial deposits

Qu, surficial deposits, undifferentiated;  
includes colluvium  
Qal, flood-plain alluvium. Includes small  
areas bedrock that may be recent  
Qgl, glacial drift. Hatched line indicates  
prominent lateral or terminal moraines;  
locally coincides with boundary of  
glacial drift. Pleistocene  
Qt, alluvial fan and related terrace  
deposits. Pleistocene(?)  
line represents  
prominent scarp separating terraces of  
different altitudes.  
Many upland areas probably covered by colluvium  
and weathered glacial drift are mapped  
as bedrock

UNCONFORMITY

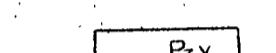
VOLCANIC AND ASSOCIATED  
SEDIMENTARY ROCKS

GRANITE AND  
METAMORPHIC ROCKS



MzPzP

Porphyritic granite and  
quartz monzonite



Pzg

Greenstone and  
greenschist.

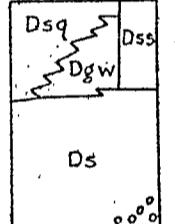
Volcanic rocks and chert

Pzv, basalt, andesite and gabbro; flows, breccias  
and intrusives; includes many small areas  
of interbedded (?) chert and slate (Hze) and  
graywacke (Dgw?). Devonian and possibly  
younger (Mesozoic)?  
Pzc, black, gray, yellow, red and green, laminated,  
partly radiolarian; part green and  
black slate, includes alluvium and tuff;  
includes undifferentiated mafic dikes and  
sills along the Shenejek River. Seems  
interbedded with Devonian quartzite (Dsq)  
and graywacke (Dgw). Occurs in black  
slate (Ds) Devonian age at one locality.  
North of quadrangle also occurs in black  
shale of Mississippian age. May include  
rocks of younger age.

DK

Kaneyut conglomerate

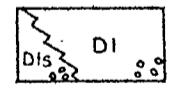
Quartzite and quartzitic conglomerate.  
Partly equivalent to Dsq. North of  
quadrangle overlies both Dgw and Ds;  
locally pinches out southward



Black slate and sandstone

Dsq, quartzite with interbedded slate and  
lithic graywacke  
Dss, undifferentiated quartzite (Dsq) and  
graywacke (Dgw); west of East Fork of  
Chandalar River is schistose and  
includes much schistose ferruginous  
schistose.  
Dgw, massive, lithic graywacke and shale  
Ds, slate, shale, phyllite and interbedded  
sandstone. Locally mapped basal con-  
glomerate of stretched quartz, slate  
and limestone pebbles, grades(?)  
laterally to gray, noncalcareous sheared  
graywacke (Dgw) and quartzite (Dsq)  
together as much as 2,000 feet thick;  
slate (Ds) as much as 2,500 feet thick;  
basal conglomerate as much as 900 feet  
thick.  
Plates of Paleozoic age from Upv identi-  
fied by S. H. Miner, 1960 (crosses  
locality 2). Crinospirifer sp. of  
Late Devonian age from Upv 3 miles  
north of quadrangle identified by  
J. T. Dutro, Jr., 1960

LOCAL UNCONFORMITY

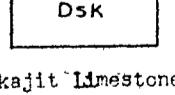


Limestone and siltstone

Dl, pink-weathering, thin-bedded silty  
micaceous limestone and calcareous t-  
mudstone; thin-bedded silty limestone  
with thin interbeds; interbedded  
calcareous sandstone and grit; some  
interbedded conglomerate resembling  
basal unit of Ds is locally mapped  
brown-weathering calcareous and non-  
calcareous phyllite, siltstone, grit  
and conglomerate; little siltstone  
thin bedded, varies from approximately  
800 to 2,000 feet on lower Snake Creek;  
locally absent.

Scrub-of-late Middle or early Late  
Devonian age is the northernmost of  
quadrangle identified by W. A. Oliver,  
Jr., 1951

LOCAL UNCONFORMITY



Skaft Limestone

Black, thick-bedded limestone at top; remainder  
large, light-gray, massive limestone or  
marl; some silicified limestone at contact  
with volcanic rocks.

PRELIMINARY GEOLOGIC MAP OF THE CHRISTIAN QUADRANGLE, ALASKA

By  
W. P. BROSGE AND H. N. REISER

1962

SHEET 2 OF 2 SHEETS

OPEN FILE MAP  
SHEET 2 OF 2 SHEETS

Fossil Collections

Locality number	Field number	Age
1	GOAR672	Silurian or Devonian
2	GOBe661 (plants)	Paleozoic

Identified by S. H. Miner, 1960 and W. A. Oliver, Jr., 1961

EXPLANATION

Contact

Long dashes where approximately located;  
short dashes where inferred; dotted  
where concealed

Fault

Dashed where approximately located; queried  
where doubtful; dotted where concealed.  
U, upthrown side; D, downthrown side

Thrust fault

Dashed where approximately located; queried  
where doubtful; dotted where concealed.  
 Saw-tooth on upper plate

Anticline

Showing approximately located trace of axial  
plane

OVERTURNED ANTICLINE

Showing approximately located trace of axial  
plane, direction of dip of limbs and plunge  
of axis

Strike and dip of beds

Probably includes some overturned beds

Strike and dip of beds

From distant views and photointerpretations.  
Probably includes some overturned beds

Strike and dip of vertical beds

Horizontal beds

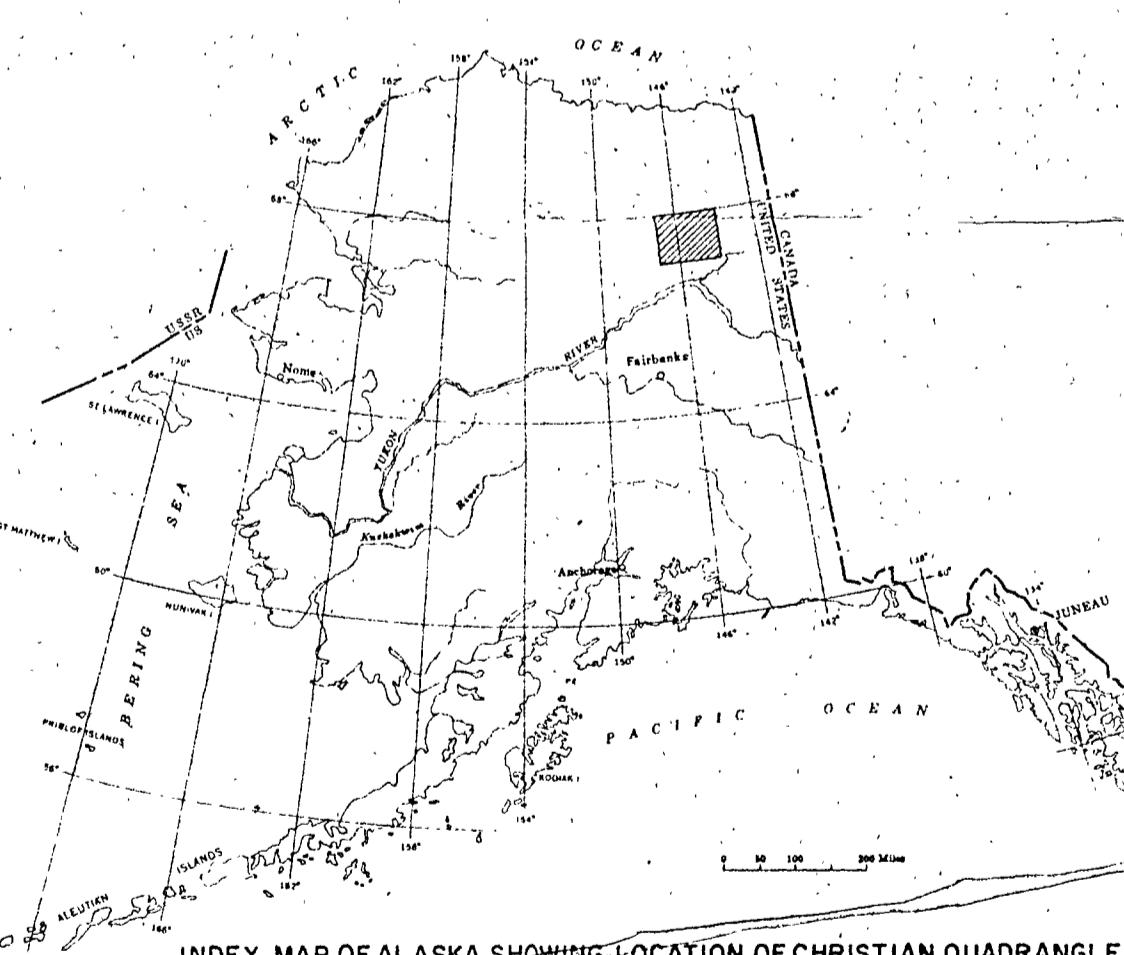
Fossil locality

Number refers to list of fossil collections

Moraine

Locally coincides with boundary  
of glacial drift

Alluvial terrace scarps



INDEX MAP OF ALASKA SHOWING LOCATION OF CHRISTIAN QUADRANGLE

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att  
file  
MS 65  
OFR  
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New # 62-15